

GALWAY - COUNTY GEOLOGICAL SITE REPORT

NAME OF SITE	Pollnadirik
Other names used for site	
IGH THEME	IGH1 Karst
TOWNLAND(S)	Ballykilladea
NEAREST TOWN/VILLAGE	Gort, Kinvara
SIX INCH MAP NUMBER	113
ITM CO-ORDINATES	540043E 706930N (entrance)
1:50,000 O.S. SHEET No. 52	GSI BEDROCK 1: 100,000 SHEET NO. 14

Outline Site Description

A very small well-defined site with a walled boundary, which can be easily seen from a distance as a small wooded area.

Geological System/Age and Primary Rock Type

The collapse doline is a post glacial feature within Carboniferous Limestone.

Main Geological or Geomorphological Interest

Pollnadirik is an elongate collapse doline some 15 m deep and 50 m long with a vertical southern wall. Although the hollow is dry it presumably is a collapse into the underground Gort-Kinvara river beneath. The east to west joints are closely spaced and this may have encouraged the collapse. Though dry, the doline is reported to have half filled with water for a few days during the winter of 1992-93 for no obvious reason as this was not a year with flooding. The lower part of the doline contains exposures of apparently in-situ till, incorporating granite erratics. Beneath the till are collapse blocks. Thus the collapse that created the doline seems to predate at least the last glacial advance in the region. The lower part of the till has been calcreted by percolation water, but in the south-south-eastern end of the doline, till has collapsed into the (presumed) river passage beneath to create a cavern roofed by calcreted till and floored by collapsed blocks.

Site Importance – County Geological Site; recommended for Geological NHA

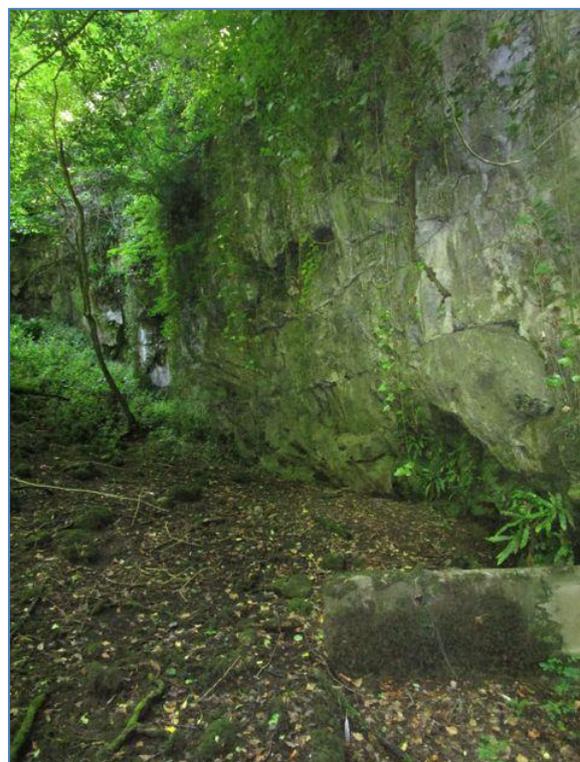
Pollnadirik is one of numerous sites within the Gort-Kinvara lowlands which make up a complex of international importance. The site is recommended to NPWS for designation as a geological NHA, comprising one of 16 critical sites within the Gort-Kinvara lowland karst, which is of international importance as one of the best studied lowland karst areas of the World.

Management/promotion issues

The site is on private farmland and landowner permission should be sought to visit it. However, it is of specialised interest, difficult to access, well vegetated and unsuitable for public promotion.



The calcreted till with granite cobbles at the base of the doline, with cave below.



The cave entrance with calcreted till as roof. The lower floor of the collapse doline.

